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	Application No.	Applicant(s)	
Nation of Allowskills	10/707,986	WU, CHIH-NING	
Notice of Allowability	Examiner	Art Unit	
	Lynette T. Umez-Eronini	1765	
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	plication. If not includ will be mailed in due	ed course. THIS
1. This communication is responsive to <u>1/29/2004</u> .			
2. The allowed claim(s) is/are <u>1-10</u> .	•		
3. \boxtimes The drawings filed on <u>29 January 2004</u> are accepted by the	e Examiner.		
4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. ☐ A SUBSTITUTE OATH OR DECLARATION must be subminsformal PATENT APPLICATION (PTO-152) which give 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be including changes required by the Notice of Draftspers	been received. been received in Application No cuments have been received in this rec	national stage applicational stage applicational stage application of the research of the stage application is deficient.	quirements
1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the O	ffice action of	
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the drawin ne header according to 37 CFR 1.121(d	gs in the front (not the	back) of
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I	SIT OF BIOLOGICAL MATERIAL IN FOR THE DEPOSIT OF BIOLOGICA	nust be submitted. I AL MATERIAL.	Note the
 Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	8. 🛛 Examiner's Stateme	(PTO-413), e <u>8/4/2005</u> nent/Comment	owance

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Winston Hsu on 8/4/2005.

The application has been amended as follows:

In the Specification, paragraph [0001], line 3, after "Wu", insert --now U. S. Patent No. 6,794,292--;

In the Specification, paragraph [0030], line 11, after "surface", insert --, wherein x is 1 or 2--;

In claim 1, line 7, delete "the" then insert --an--;

In claim 3, lines 2-3, delete "or diluted HF/HCl" then insert --diluted HF or diluted HCl--;

In claim 4, line 2, after "Cu(OH)₂" then insert --, wherein x is 1 or 2--

In claim 6, line 1, delete "1" then insert --2--;

In claim 8, line 1, delete "1" then insert --2--; and

In claim 9, line 1, delete "1" then insert --2--.

2. The following is an examiner's statement of reasons for allowance: As to claims 1-10, the best prior art, Arrington et al. (US 5,009,714) teaches a process for removing copper and copper oxide in a test conducted using an oxidizing agent under an inert nitrogen atmosphere, in which very little copper was dissolved (column 11, lines 9-28 and column 12, lines 5-12), however, Arrington taken alone or in combination fails to provide a motivation for, as well as suggest, teach, or render obvious a wet cleaning method comprising: performing an oxidation step in combination with reducing Cu deposition on a cathode-like copper wiring line by purging an inert gas during oxidation process, along with the rest of the limitations of the said claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lynette T. Umez-Eronini whose telephone number is 571-272-1470. The examiner is normally unavailable on the First Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nadine Norton can be reached on 571-272-1465. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for

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published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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September 22, 2005

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